

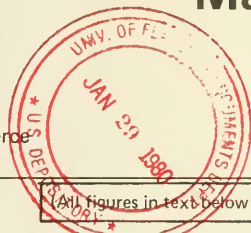
Manufacturers' Shipments, Inventories, and Orders

NOVEMBER 1979

U.S. Department of Commerce
BUREAU OF THE CENSUS

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(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods increased \$1.3 billion or 0.9 percent in November to \$147.8 billion the Department of Commerce, Bureau of the Census reported today. This increase followed a 0.4 percent decline in October new orders. A 1.9 percent increase in nondurable goods orders more than offset the small decline in orders for durable goods.

Durable goods new orders for November were valued at \$76.3 billion, almost unchanged from the October level. This is a revision of the 1.2 percent decline reported earlier which was based on less complete reporting.

In the transportation equipment category, a significant increase in aircraft new orders of \$1.4 billion or 35 percent to \$5.3 billion was almost completely offset by a sharp decline for the motor vehicle and parts industry of \$1.2 billion or 11.6 percent to \$8.8 billion. For the automotive assembly portion of that industry, new orders are considered to be equal to shipments made during the month. The increase for the aircraft industry followed a 34 percent decline in October.

Excluding transportation, new orders for durable goods increased by \$0.8 billion or 0.6 percent. New orders reported by the steel industry were up \$0.2 billion or 4.0 percent to \$5.9 billion. This rise, and the 0.3 percent increase recorded in October, followed an average decline of 2.4 percent per month during the previous quarter.

New orders for nondefense capital goods increased \$0.3 billion or 1.5 percent to \$21.1 billion. A \$0.6 billion increase in aircraft orders was partially offset by declines in communication equipment and shipbuilding. Defense new orders were up \$1.0 billion or 34 percent to \$4.1 billion following a 29 percent decline in October.

Shipments of manufactured products declined \$0.7 billion or 0.5 percent to \$144.9 billion. This is the first shipments decline reported since a 2.3 percent drop last June. Durable goods shipments were down significantly, dropping \$1.4 billion or 1.8 percent to \$74.1 billion. For the first 6 months of this year shipments have averaged \$73.8 billion per month. Since July, their average value has been \$74.3 billion, an increase of 0.7 percent over the monthly average for the first half of 1979.

Nearly all durable goods industries reported declines, the largest occurring in the motor vehicle industry where shipments were down \$1.0 billion or 9.4 percent to \$9.3 billion. A large

decline in shipments of nonelectrical machinery of \$0.6 billion or 4.5 percent to \$13.2 billion was partially due to declines in the construction equipment and farm machinery industries.

Shipments of both the household durable goods industries and the nondefense capital goods industries declined. Household durable shipments were down \$0.1 billion from October to \$4.9 billion. The decline in shipments of nondefense capital goods of \$0.4 billion or 2.1 percent reflected the nonelectrical machinery declines.

Shipments by the nondurable goods industries increased \$0.7 billion or 1.0 percent to \$70.8 billion. The most significant increases were in petroleum products, up \$0.5 billion or 3.9 percent to \$12.9 billion, and in chemicals, up \$0.2 billion or 1.7 percent to \$13.1 billion.

Manufacturers' backlog of unfilled orders in November increased \$2.9 billion or 1.1 percent to \$275.8 billion. Since the end of 1978, this backlog has increased by an average of 1.4 percent per month. The backlog in the aircraft industries, which was up \$1.7 billion or 2.3 percent in November, has risen from \$56.1 billion at the end of 1978 to \$75.1 billion at the end of November, an average increase of 3.1 percent per month. Without the aircraft orders, manufacturers' backlogs have increased 0.9 percent per month since last December.

Manufacturers' book value of inventories increased \$2.7 billion or 1.2 percent to \$226.2 billion. With the exception of the motor vehicle industry which reported a \$0.2 billion or 2.4 percent decline, nearly all durable goods industries recorded increases of more than 1.0 percent. Inventories of nondurable goods manufacturers were up \$0.5 billion or 0.7 percent to \$75.9 billion, with the foods and chemicals industries accounting for most of the increase.

The figures for the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear in the report to be published for next month. Periodically all data are adjusted to benchmark levels as discussed later in the section Description of Survey. The advance report on durable goods for December is scheduled for release on January 22, 1980 and the full report is scheduled for release on January 31, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Without seasonal adjustment ¹															
		Monthly												Monthly															
		Nov. P 1979	Oct. F 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. P 1979	Oct. F 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Year to date													
		ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																											
	All manufacturing industries:	144,891	145,489	143,201	142,532	141,720	138,960	142,288	144,057	150,802	148,657	140,375	131,605	147,053	144,304	1,553,162	1,469,592												
	Total, excluding transportation	130,059	130,194	127,578	126,498	126,134	123,531	125,049	128,903	133,981	132,899	127,236	118,022	129,967	126,114	1,372,817	1,306,386												
	Total for industries with un-	75,723	76,037	74,867	75,299	75,058	73,684	75,343	75,331	79,311	77,923	74,499	68,468	78,699	76,490	819,956	721,023												
	filled orders.....																												
	Durable goods industries, total..	74,066	75,488	74,012	74,416	73,585	72,629	75,698	73,097	78,538	76,949	71,365	67,066	78,976	77,997	817,699	729,667												
	Durable goods with unfilled																												
	orders.....	61,137	61,932	60,485	60,936	60,289	59,509	60,974	60,505	63,880	62,833	59,801	54,927	64,208	62,284	663,723	581,442												
	Nondurable goods industries,																												
	total.....	70,825	70,141	69,189	68,116	68,145	66,331	66,590	70,960	72,264	71,708	69,010	64,539	68,077	66,307	735,463	639,925												
	Nondurable goods with unfilled																												
	orders.....	14,586	14,705	14,382	14,363	14,769	14,175	14,369	14,826	15,431	15,090	14,698	13,541	14,491	14,206	156,233	139,581												
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																													
	Market categories:	10,997	10,845	10,795	10,750	10,496	10,551	10,381	11,456	12,189	11,984	11,721	9,590	10,799	9,906	116,216	105,979												
	Household durables.....	26,100	25,783	25,101	24,865	25,421	24,480	24,686	26,503	27,000	26,528	24,980	24,203	24,914	24,339	273,177	245,210												
	Consumer staples.....	20,019	20,243	20,553	20,445	19,726	19,075	19,331	19,475	20,592	20,871	19,370	18,065	20,700	19,618	214,897	184,136												
	Equipment and defense pro-	11,099	12,121	11,866	11,935	11,749	11,972	13,798	11,339	13,306	12,065	9,481	10,146	13,404	14,729	141,360	141,730												
	ducts, except automotive.....																												
	Automotive equipment.....																												
	Construction materials, sup-																												
	plies, and intermediate																												
	products.....	12,909	13,068	12,624	12,576	12,526	12,319	12,429	12,691	13,637	13,486	13,452	12,364	13,605	13,079	137,531	119,288												
	Other materials and supplies	63,687	63,429	62,082	61,961	61,812	60,563	61,663	62,553	64,078	63,723	61,371	57,237	63,631	62,633	670,001	573,250												
	and intermediate products....																												
	Supplementary series: ²	4,850	4,966	4,669	4,665	4,701	4,661	4,577	5,005	5,485	5,261	4,955	4,038	4,850	4,488	51,602	47,327												
	Household durable goods indus-	22,734	23,026	22,947	22,999	22,169	21,791	21,840	22,437	23,347	23,463	21,768	20,332	23,540	21,988	243,536	211,749												
	tries.....	19,611	20,021	20,019	20,007	19,386	18,762	19,036	19,358	20,413	20,413	18,069	17,614	20,413	19,942	211,456	199,593												
	Capital goods industries.....	3,123	3,005	2,928	2,992	2,783	3,029	2,864	3,079	3,061	3,050	2,893	2,818	3,127	2,864	31,080	29,489												
	Nondefense.....																												
	Defense.....																												
INDUSTRY GROUPS AND INDUSTRIES																													
	Durable goods industries:	4,226	4,246	4,027	4,055	4,111	4,072	4,124	4,168	4,552	4,343	4,386	4,016	4,471	4,263	44,665	40,489												
32	Stono, clay, and glass	375	372	334	328	329	323	329	334	360	341	334	311	340	311	4,465	3,989												
33	Glass containers.....	12,085	12,088	11,554	11,577	11,300	11,344	12,031	11,711	12,594	11,802	11,450	10,851	12,599	13,055	129,677	109,593												
331-9	Primary metals, total.....	3,068	3,093	3,076	3,087	3,099	3,068	3,051	3,266	3,575	3,423	3,351	3,146	3,463	3,423	38,886	36,488												
	Nonferrous and other primary																												
	metals.....	5,311	5,081	4,727	4,923	4,783	4,781	4,862	5,115	5,131	4,954	4,726	4,381	5,192	5,173	53,557	43,352												
34	Fabricated metal prod., total..	9,334	9,310	8,987	9,118	9,053	9,040	9,338	9,143	9,683	9,438	9,332	8,477	9,787	9,620	100,968	87,813												
341	Metal cans, barrels, and	878	826	829	823	792	810	871	727	806	978	988	894	933	897	9,402	8,438												
35	machinery, except electrical,																												
	total.....	13,168	13,783	13,618	13,607	13,299	12,902	13,058	12,607	13,789	13,881	12,793	12,039	14,043	13,251	143,911	126,425												
351	Engine and turbines.....	1,059	1,192	1,161	1,076	1,104	1,114	1,068	994	1,115	1,207	1,146	1,038	1,266	1,236	13,911	12,616												
352	Farm machinery and equipment	1,090	1,076	1,286	1,267	1,282	1,075	1,160	878	1,169	1,144	1,038	1,166	1,166	1,166	12,721	10,395												
353	Construction machinery.....	2,356	2,420	2,867	2,766	2,659	2,589	2,642	2,246	2,778	2,890	2,669	2,569	2,796	2,732	29,257	25,828												
354	Commercial and service	866	875	844	827	803	786	759	826	845	881	745	703	876	768	10,366	9,586												
356	machinery.....	1,121	1,234	1,093	1,129	1,065	1,050	1,063	1,084	1,265	1,118	1,078	981	1,148	1,087	12,087	10,428												

See footnote at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

SIC	Industry	(Millions of dollars)															
		Seasonally adjusted						Without seasonal adjustment ¹									
		Monthly						Monthly									
		Nov. P 1979	Oct. P 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. P 1979	Oct. P 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Year to date 1979	1978
INDUSTRY GROUPS, AND INDUSTRIES—Continued																	
36	Electrical machinery, total....	9,468	9,375	9,366	9,218	9,101	9,308	9,157	9,590	9,790	9,877	9,029	8,178	9,851	8,990	99,969	89,966
361,2	Electrical transmission and distribution equipment and industrial apparatus....	1,716	1,693	1,701	1,585	1,461	1,689	1,700	1,700	1,720	1,745	1,534	1,465	1,805	1,718	18,391	16,154
363	Radio and television sets....	1,588	1,580	1,583	1,462	1,347	1,572	1,581	1,709	1,703	1,685	1,500	1,400	1,709	1,557	17,053	16,451
365	Radio and TV....	1,588	1,580	1,583	1,462	1,347	1,572	1,581	1,709	1,703	1,685	1,500	1,400	1,709	1,557	17,053	16,451
366	Communication equipment....	2,804	2,792	2,815	2,744	2,529	2,720	2,545	2,775	2,769	2,639	2,661	2,278	2,870	2,551	28,938	24,843
367	Electronic components....	1,515	1,507	1,532	1,564	1,547	1,530	1,471	1,551	1,578	1,612	1,472	1,386	1,564	1,462	16,231	13,641
37	Transportation equipment, total....	14,792	15,495	15,623	16,034	15,596	15,429	17,239	15,154	16,821	15,758	13,139	13,583	17,086	18,190	183,345	173,206
371	Motor vehicles and parts....	9,285	10,231	10,072	10,071	10,066	10,365	12,123	9,682	11,338	10,210	7,640	8,487	11,567	12,483	121,468	121,641
372,6	Aircraft, missiles, and parts....	3,643	3,473	3,803	4,051	3,576	3,425	3,561	3,680	3,607	3,767	3,731	3,522	3,713	3,635	39,832	33,984
3731	tank vehicles....	735	762	717	753	707	686	616	745	809	735	704	682	736	627	7,729	7,121
38	Instrument and related products, total....	3,201	3,089	3,139	3,006	3,009	3,028	2,963	3,301	3,422	3,346	3,021	2,765	3,211	2,943	33,002	28,819
381-4	Electronic and electromechanical goods....	1,153	1,118	1,104	1,056	1,064	1,064	1,011	1,247	1,381	1,196	1,092	1,017	1,313	1,166	10,227	10,227
39	All other durable goods industries....	7,792	8,062	7,698	7,591	7,589	7,356	7,447	7,677	8,588	8,399	8,193	7,053	7,928	7,685	86,255	74,746
Nondurable goods industries:																	
20	Food and kindred products, total....	20,387	20,273	19,943	19,518	19,770	19,936	19,418	20,636	21,053	20,623	19,544	18,863	19,604	19,268	214,764	193,449
201	Meat products....	5,185	5,109	4,947	4,952	4,996	5,077	5,263	5,133	5,262	4,987	5,007	4,906	5,137	5,368	56,680	51,876
202	Dairy products....	2,348	2,328	2,313	2,286	2,257	2,285	2,289	2,383	2,450	2,394	2,423	2,357	2,611	2,371	25,389	22,731
207	Fats and oils....	1,630	1,711	1,711	1,581	1,576	1,560	1,569	1,673	1,667	1,736	1,564	1,638	1,580	1,553	17,771	15,234
203-4,9	All other foods....	8,498	8,479	8,191	7,810	7,988	7,616	7,605	8,685	8,963	8,867	7,779	7,301	7,540	7,286	85,727	77,652
21	Tobacco products....	1,037	1,055	1,049	1,021	1,422	883	1,027	1,060	1,097	1,036	1,049	1,126	885	1,040	11,101	10,000
22	Textile mill products....	3,916	4,039	3,973	3,903	4,060	3,984	3,914	4,013	4,201	4,234	3,942	3,419	4,207	3,973	43,160	40,460
26	Paper and allied products, total....	5,576	5,661	5,544	5,634	5,838	5,479	5,613	5,532	5,745	5,664	5,795	5,507	5,770	5,637	60,869	53,081
261-3	Pulp, paper, etc....	2,613	2,598	2,565	2,526	2,541	2,536	2,515	2,592	2,485	2,552	2,484	2,413	2,633	2,569	27,469	23,258
265	Paperboard containers....	1,235	1,257	1,191	1,221	1,196	1,221	1,196	1,224	1,235	1,235	1,288	1,135	1,237	1,234	13,462	12,761
264	All other paper containers....	1,728	1,786	1,788	1,810	2,076	1,747	1,978	1,716	1,759	1,877	1,693	1,759	1,968	1,934	19,698	17,769
28	Chemicals and allied products, total....	13,082	12,864	12,705	12,410	12,452	12,552	12,419	12,452	12,759	13,172	12,228	11,818	13,175	12,898	136,585	116,021
281,6	Industrial chemicals, except pigments....	4,691	4,554	4,463	4,463	4,466	4,365	4,305	4,429	4,432	4,449	4,354	4,166	4,562	4,460	47,466	38,744
283,4	Drugs, soap, and toiletries....	3,492	3,389	3,358	3,273	3,669	3,369	3,251	3,422	3,403	3,860	3,283	3,309	3,450	3,024	31,606	28,914
29	Petroleum and coal products....	12,905	12,419	12,281	11,885	10,977	10,757	10,622	12,881	12,402	12,351	11,968	11,084	10,909	10,388	120,654	94,101
30	Rubber and plastics products, n.e.c....	3,675	3,774	3,730	3,773	3,739	3,704	3,809	3,588	3,947	3,826	3,804	3,415	3,923	3,893	41,519	36,909
32	All other nondurable goods industries....	10,217	10,076	9,964	9,972	9,767	9,716	9,748	10,798	11,040	10,802	10,680	9,307	9,604	9,210	106,609	95,904

Preliminary.

Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

² The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries—Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optoelectronic goods, watches, and clocks; and miscellaneous capital goods industries—The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories. Nondefense products—Machinery, except electrical (excluding farm machinery and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance. Defense products—Based on separate reports on defense work filed by large defense contractors in 1968-1975, shipments of defense-oriented industries, for the specified industries. The data are comparable to those published annually in the 38-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2. VALUE OF MANUFACTURES: NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted						Without seasonally adjustment ¹											
		Monthly						Monthly						Year to date					
		Nov. P 1979	Oct. F 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. P 1979	Oct. F 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	1979	1978		
								ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL											
	All manufacturing industries:	147,788	146,537	147,154	142,664	140,508	142,269	143,594	145,418	153,335	150,964	140,488	132,360	149,983	144,733	1,411,344			
	Total, excluding trans-	131,700	130,851	128,831	126,434	124,683	124,683	126,428	129,342	134,074	132,511	126,962	117,401	130,760	125,585	1,390,811	1,217,898		
	portation.....	78,620	77,585	78,820	75,431	73,836	76,993	76,649	76,692	82,911	80,230	74,612	69,223	81,129	76,919	858,900	762,775		
	Total for industries with	76,321	76,400	77,560	74,029	72,545	75,820	77,027	73,964	81,075	78,998	71,203	67,926	81,410	78,568	858,060	769,840		
	unfilled orders.....	63,392	62,884	64,033	60,549	62,700	62,700	62,303	61,372	66,417	64,882	59,639	55,787	66,642	62,855	700,086	621,616		
	Durable goods industries, total..	71,467	70,137	69,594	68,635	67,963	66,449	66,567	71,454	72,260	71,966	69,285	64,434	68,073	66,165	736,979	641,305		
	Durable goods with unfilled	15,228	14,701	14,787	14,882	14,587	14,293	14,346	15,320	16,494	15,348	14,973	13,436	14,487	14,064	158,816	141,161		
	orders.....	56,239	55,436	54,807	53,753	53,376	52,156	52,221	56,134	55,766	56,618	54,312	50,998	53,586	52,101	578,163	500,343		
	Nondurable goods industries:																		
	total.....	10,894	10,765	10,896	10,787	10,313	10,818	10,094	11,103	11,822	12,020	11,758	9,712	11,128	9,731	116,761	106,178		
	Industries with unfilled orders	26,051	25,765	25,296	24,075	23,428	24,510	24,696	26,456	26,987	28,343	24,955	24,242	24,925	24,335	273,188	245,342		
	except automotive.....	21,875	20,463	23,029	20,062	19,744	19,930	21,392	20,472	22,928	23,422	18,996	19,256	21,424	20,757	233,901	206,104		
	Automotive equipment.....	10,614	11,825	11,994	11,475	11,473	12,128	13,442	10,906	12,900	12,094	9,253	10,000	13,469	14,335	140,028	143,447		
	Plies, and intermediate prod-	12,768	12,773	12,547	12,670	12,431	12,046	12,449	12,475	13,266	13,288	13,527	12,342	13,405	13,042	137,891	120,144		
	ucts.....																		
	Other materials and supplies																		
	and intermediate products.....	65,586	64,946	63,392	62,795	61,119	62,837	61,521	64,006	65,432	63,597	61,959	56,808	65,132	62,530	689,270	590,229		
MARKET CATEGORIES AND SUPPLEMENTARY SERIES																			
	Market categories:																		
	Household durable goods indus-	4,647	4,714	4,745	4,657	4,530	4,855	4,308	4,580	5,080	5,266	4,959	4,144	5,105	4,325	51,764	47,475		
	tries.....	25,143	23,797	26,045	23,770	22,536	24,250	24,583	23,868	26,859	26,502	22,568	22,188	25,665	23,721	272,295	238,354		
	Capital goods industries.....	21,089	20,784	21,815	20,737	20,232	21,753	20,965	20,037	22,432	22,206	20,230	19,420	23,062	20,726	200,796	200,796		
	Nonferrous.....	4,054	3,013	4,230	3,033	2,304	2,497	3,618	3,811	4,427	4,296	2,338	2,768	2,603	2,995	37,557	37,557		
INDUSTRY GROUPS AND INDUSTRIES																			
	Durable goods industry:																		
32	Stone, clay and glass.....	4,181	4,079	4,053	3,991	4,235	3,953	4,182	4,109	4,325	4,337	4,285	4,124	4,387	4,249	44,620	40,584		
33	Primary metals, total.....	12,623	12,315	11,707	10,707	10,937	11,658	11,270	11,951	11,880	10,225	10,225	9,549	12,178	12,713	132,998	116,661		
331	Blat furnaces, steel mills..	5,624	5,665	5,649	4,503	5,110	5,476	5,219	5,573	5,349	4,849	4,240	4,429	5,650	5,759	64,866	59,842		
332-5	Other primary metal products.....	5,624	5,440	4,990	5,104	4,728	5,050	4,756	5,279	5,297	4,961	4,924	4,132	5,120	5,071	55,201	44,746		
34	Fabricated metal products.....	9,197	9,303	8,745	9,268	8,994	8,878	9,477	8,920	9,690	9,329	9,528	8,592	9,765	9,725	102,820	90,146		
35	Machinery, except electrical..	13,686	13,839	13,983	13,401	13,105	13,503	12,871	12,871	14,064	13,826	12,741	12,252	14,691	13,737	149,099	130,081		
351	Transportation.....	1,034	1,196	1,214	1,161	853	1,242	1,016	851	1,270	1,232	1,073	861	1,285	999	12,069	10,737		
353	Construction, mining, and	2,288	2,914	2,889	2,732	2,655	2,565	2,522	2,122	2,887	2,769	2,627	2,604	2,828	2,587	29,319	26,785		
354	Material handling equipment..	962	1,040	1,040	1,019	851	946	880	1,199	941	1,199	911	911	941	925	10,648	8,899		
356	Metallurgical machinery.....	1,199	1,205	962	1,223	1,063	1,117	1,065	1,090	1,153	993	1,201	1,000	1,236	1,152	12,508	10,398		

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted												without seasonal adjustment ¹														
		Monthly												Monthly												Year to date		
		Nov. p 1979	Oct. r 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. p 1979	Oct. r 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	1979	1978											
INDUSTRY GROUPS AND INDUSTRIES--Continued																												
36	Electrical machinery, total.....	9,683	9,661	9,796	9,633	8,867	9,690	9,587	9,359	10,047	10,402	9,651	8,423	10,300	9,307	105,920	94,190											
361,2	Electrical transmission and distribution equipment.....	1,717	1,782	1,697	1,772	1,579	1,811	1,768	1,658	1,795	1,736	1,730	1,453	1,887	1,717	19,144	16,948											
363	Household appliances.....	1,080	1,114	1,069	1,032	1,022	1,084	1,064	974	1,115	1,133	1,054	1,047	1,180	1,075	11,675	11,152											
365	Radio and television equipment.....	2,645	2,901	3,115	2,871	2,379	2,578	3,041	2,718	3,166	3,273	2,715	2,367	2,746	2,892	30,816	26,563											
366	Communication equipment.....	2,944	2,901	3,115	2,871	2,379	2,578	3,041	2,718	3,166	3,273	2,715	2,367	2,746	2,892	30,813	26,563											
367	Electronic components.....	1,604	1,845	1,573	1,762	1,671	1,700	1,595	1,561	1,666	1,672	1,722	1,596	1,790	1,659	18,703	15,178											
37	Transportation equipment, total.....	16,088	15,686	18,323	16,230	15,874	17,586	18,966	16,076	19,261	18,453	13,526	14,959	18,723	19,148	200,228	193,466											
372,6	Aircraft, missiles, and parts	5,341	3,944	5,956	4,862	4,361	6,046	5,343	5,092	6,138	6,189	4,435	4,883	5,761	4,704	59,735	49,076											
3731	Shipbuilding and military tank vehicles.....	711	732	802	975	593	265	924	661	955	766	684	619	452	760	7,936	8,771											
38	Instruments and related products.....	3,212	3,173	3,229	3,084	3,023	3,183	2,960	3,259	3,290	3,387	3,117	2,827	3,402	2,934	33,805	29,740											
24	All other durable goods	7,651	8,144	7,724	7,515	7,510	7,370	7,445	7,419	8,518	8,341	8,130	7,200	7,964	7,759	84,624	74,980											
25	Industries.....																											

¹Preliminary. ²Revised.

³Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

⁴The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries - The capital goods industries is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products-machinery, except electrical (excluding farm machinery and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the defense products-machinery, except electrical (excluding farm machinery and machine shops).

Defense products-based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the DA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENT SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Last 7 months					Monthly									
		Oct. 1979 ^a	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1979 ^b	Oct. 1979 ^c	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1978	Oct. 1978	Sept. 1978				
		ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																			
	All manufacturing industries:	275,801	275,906	271,946	276,863	269,086	265,782	275,014	273,650	271,120	268,812	268,694	267,941	265,506	233,600	229,031	221,710				
	Total, excluding transportation	175,806	176,206	173,440	172,253	173,753	172,605	173,745	173,306	173,215	173,603	173,874	174,500	173,702	153,520	152,496	150,499				
	Durable goods industries, total	263,791	261,538	260,576	257,417	258,457	255,273	263,335	262,464	259,931	257,882	258,040	257,179	254,745	223,466	219,003	211,688				
	Nondurable goods industries, total	12,010	11,368	11,370	10,466	10,629	10,509	11,679	11,186	11,189	10,930	10,654	10,762	10,761	10,134	10,028	10,082				
	Market categories:																				
	House goods and apparel	4,613	4,767	4,963	4,822	5,001	4,405	4,470	4,907	5,287	5,182	5,022	4,679	4,112	4,467	4,913					
	Transportation equipment	151,729	150,359	150,430	148,647	148,905	147,898	152,690	152,125	150,196	147,615	148,216	147,165	146,380	133,339	130,419	124,972				
	Automotive equipment	20,519	20,741	21,017	21,020	21,114	21,388	20,430	20,648	21,018	21,217	21,142	21,165	21,364	19,319	19,104	19,747				
	Primary and intermediate goods, other materials and supplies	98,940	97,039	95,516	93,374	94,066	91,791	97,424	95,970	94,619	94,762	94,154	94,589	93,043	76,530	74,341	72,138				
	Intermediate products																				
	Supplementary series: ²																				
	Household durable goods industries	3,458	3,663	3,914	3,867	4,020	3,828	3,357	3,780	4,185	4,181	4,175	4,070	3,813	3,338	3,439	3,405				
	Capital goods industries	175,386	172,976	172,199	168,329	167,963	165,506	176,708	175,296	171,783	168,744	167,961	165,983	163,859	146,553	141,791	137,551				
	Nondefense	128,445	126,966	126,199	123,673	122,825	119,836	129,316	128,638	126,490	124,658	124,586	122,343	118,889	103,506	101,701	97,552				
	Defense	46,941	46,010	46,000	44,657	45,138	45,670	47,392	46,658	45,293	44,066	44,598	44,447	44,970	42,657	41,197	38,921				
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industry:																				
12	Stone, clay and glass	2,882	2,928	3,070	3,133	3,009	3,128	2,793	2,852	3,078	3,084	3,185	3,078	3,160	2,635	2,707	2,721				
32	Primary metals, total	30,790	30,252	30,024	30,933	31,902	31,738	29,301	28,806	28,998	29,981	31,238	32,645	33,066	25,036	24,637	23,994				
331	Nonferrous and other primary metal products	18,657	18,450	18,680	18,756	20,061	20,930	17,798	17,491	17,895	18,869	20,341	21,516	22,073	18,425	18,012	15,662				
333-6,9	Nonferrous and other primary metal products	9,506	9,193	8,833	8,570	8,445	8,176	8,907	8,743	8,577	8,570	8,373	8,662	8,495	6,613	6,743	6,527				
34	Fabricated metal products	27,875	28,013	27,818	28,060	27,911	27,970	28,132	27,886	28,108	28,103	28,213	28,018	27,902	27,924	25,565	25,423				
35	Machinery, except electrical	57,900	57,383	57,323	56,958	57,163	56,988	57,917	57,654	57,380	57,436	57,474	57,280	56,615	52,441	51,855	50,922				
351	Engines and turbines	16,747	16,732	16,724	16,673	16,626	16,768	16,753	16,895	16,746	16,716	16,888	16,731	16,648	16,555	16,461	16,359				
353	Construction, mining, and material handling equipment	8,003	8,011	7,977	7,989	7,991	8,018	7,931	8,055	7,965	8,067	8,108	8,073	8,042	7,723	7,596	7,401				
354	Transportation machinery	7,018	6,922	6,756	6,332	6,327	6,111	6,039	6,984	6,804	6,485	6,283	6,074	6,009	5,083	4,859	4,776				
356	General industrial machinery	7,259	7,181	7,210	7,247	7,249	7,182	7,201	7,195	7,268	7,392	7,269	7,259	7,161	6,861	6,972	6,991				

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted												Without seasonal adjustment ¹											
		Monthly												Monthly											
		Last 7 months												Last 3 months (a year ago)											
		Nov. 1979 ^p	Oct. 1979 ^r	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1979	Oct. 1979	Sept. 1979 ^p	Aug. 1979 ^r	July 1979	June 1979	May 1979	Nov. 1979	Oct. 1979	Sept. 1979							
INDUSTRY GROUPS AND INDUSTRIES--Continued																									
36	Electrical machinery, total....	35,218	35,002	34,715	34,285	33,671	33,906	33,527	35,141	35,373	35,114	34,589	33,968	33,725	33,275	29,872	29,457		29,447						
361, 2	Electrical transmission and distribution equipment and materials.....	7,425	7,476	7,376	7,380	7,193	7,275	7,153	7,447	7,490	7,414	7,423	7,228	7,240	7,157	6,755	6,696	6,577	6,577						
363	Household appliances.....	384	385	397	390	432	483	472	315	358	405	423	481	499	459	344	390	395	395						
365	Radio and TV.....	369	379	608	553	437	535	437	355	433	671	618	478	543	317	513	382	382	382						
366	Communication equipment.....	16,015	15,875	15,765	15,444	15,338	15,489	15,612	16,214	16,214	15,816	15,383	15,310	15,543	15,355	14,984	14,682	13,662	13,662						
367	Electronic components.....	9,996	9,907	9,569	9,528	9,310	9,186	9,016	9,896	9,887	9,799	9,738	9,497	9,478	9,352	7,474	7,099	6,968	6,968						
37	Transportation equipment, total.....	99,995	98,700	98,506	95,807	95,610	95,333	93,177	101,269	100,344	97,905	95,209	94,820	93,441	91,804	80,090	76,535	71,271	71,271						
372, 6	Aircraft, missiles, and spacecraft.....	75,085	73,386	72,914	70,761	70,249	69,763	67,142	76,515	75,102	72,371	69,947	69,243	67,381	65,831	55,944	52,467	49,420	49,420						
3731	Ships.....	11,044	11,069	11,098	11,012	10,792	10,906	11,348	11,003	11,086	10,960	10,929	10,948	11,010	11,295	11,071	11,459	9,559	9,559						
3795	Tank vehicles.....																								
38	Instruments and related products.....	5,918	5,905	5,823	5,733	5,655	5,640	5,486	5,874	5,916	5,868	5,826	5,730	5,668	5,477	4,896	4,906	4,816	4,816						
25	All other durable goods industries.....	3,213	3,355	3,271	3,246	3,321	3,401	3,387	3,354	3,411	3,485	3,544	3,607	3,460	3,424	2,941	2,980	3,104	3,104						

^pPreliminary.

^rRevised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the M-175, Shipments of Defense-Oriented Industries, for the specified industries.

Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors were based on the fiscal year ending in July 1977, not composite year-end data.

The seasonal pattern of the defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense Government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Monthly					Monthly									
		Weekly					Last 7 months					Last 3 months (a year ago)									
		Nov. 1979 ^a	Oct. 1979 ^a	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1979 ^b	Oct. 1979 ^b	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1978	Oct. 1978	Sept. 1978			
	All manufacturing industries: Total, excluding transportation, excluding goods with unfilled orders.....	226,167	223,450	221,417	219,137	216,560	214,339	211,085	225,154	222,296	219,375	217,893	214,979	213,618	212,123	195,872	193,459	191,945			
	Durable goods industries, total.....	195,954	193,985	192,883	190,918	188,566	186,949	183,960	194,823	192,623	190,736	189,394	187,558	186,848	185,152	171,608	169,796	168,118			
	Non-durable goods industries, total.....	136,400	134,225	132,443	131,483	129,806	127,985	126,826	130,331	128,673	126,639	125,500	124,722	123,970	123,221	114,264	113,663	113,827			
	Durable goods with unfilled orders.....	130,237	128,042	126,927	125,966	124,369	122,700	121,502	124,770	123,286	121,893	120,550	119,216	118,462	117,716	108,462	107,816	107,816			
	Non-durable goods with unfilled orders.....	19,259	17,235	15,516	14,517	13,437	12,285	11,324	14,561	13,597	12,682	11,743	10,756	9,958	9,507	8,756	8,882	8,307			
	Similar goods industries.....	75,930	75,408	74,171	73,191	72,639	71,583	70,527	73,884	72,826	71,770	70,714	69,658	68,602	67,546	60,462	59,406	58,350			
	Nondurable goods with unfilled orders.....	17,221	17,090	16,914	16,820	16,660	16,573	16,486	16,847	16,737	16,629	16,521	16,413	16,305	16,197	15,088	14,980	14,872			
MARKET CATEGORIES AND SUPPLEMENTARY SERIES																					
	Market categories.....	17,367	17,293	17,501	17,315	17,598	17,398	17,284	16,621	16,425	17,325	17,723	18,033	18,183	17,988	16,157	16,246	16,495			
	Non-durable goods industries.....	29,619	29,404	29,529	29,084	28,702	28,780	28,106	30,428	30,111	29,714	29,653	27,693	27,681	27,554	26,920	26,621	25,836			
	Capital goods industries.....	60,868	59,527	58,254	57,316	56,408	55,632	54,447	60,439	58,337	57,721	56,898	56,197	55,711	54,873	49,089	48,488	47,866			
	Automotive equipment.....	11,104	11,304	11,199	11,606	11,406	11,219	11,567	11,210	11,472	11,180	11,553	10,894	10,880	11,399	10,567	10,225	10,732			
	Construction materials, supplies, and intermediate products.....	19,290	19,000	18,882	18,878	18,828	18,982	18,959	18,811	18,676	18,663	18,748	18,795	18,921	18,794	16,443	16,458	16,384			
	Other materials and supplies.....	87,919	86,922	86,052	84,768	83,418	82,328	81,032	87,597	86,074	84,772	84,318	83,447	82,441	81,515	76,656	75,421	74,412			
	Supplementary series:																				
	Traded durable goods industries.....	8,899	8,866	8,881	8,857	8,879	8,828	8,756	8,630	8,644	8,736	8,936	9,049	9,130	9,076	8,376	8,380	8,518			
	Capital goods industries.....	67,763	66,293	64,990	63,601	62,658	61,710	60,440	67,994	65,829	64,381	63,304	62,504	61,925	61,011	54,273	53,571	52,615			
	Defense.....	58,502	57,467	56,471	55,420	54,612	53,730	52,608	58,190	57,019	55,841	55,006	54,322	53,866	53,131	47,305	46,581	45,699			
	Nondefense.....	9,241	8,826	8,519	8,181	8,046	7,980	7,832	9,204	8,810	8,540	8,298	8,182	8,059	7,880	6,963	6,990	6,917			
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industries:																				
32	Stone, clay, and glass products.....	5,550	5,522	5,445	5,429	5,372	5,332	5,322	5,316	5,310	5,274	5,360	5,445	5,406	5,449	4,606	4,525	4,586			
322	Glass containers.....	536	554	575	557	540	527	540	540	548	557	558	569	540	531	584	586	499			
33	Primary metal, total.....	19,464	19,149	19,065	19,164	18,795	18,578	18,191	19,399	19,006	18,845	18,982	18,759	18,575	18,199	17,936	17,499	17,351			
331	Iron and steel mills.....	10,708	10,556	10,457	10,593	10,343	10,260	9,964	10,783	10,619	10,467	10,572	10,312	10,178	9,835	9,901	9,517	9,370			
333-6, 9	Nonferrous and other primary metals.....	7,344	7,175	7,195	7,140	7,049	6,908	6,854	7,249	7,031	7,008	7,033	7,070	6,963	6,950	6,853	6,829	6,802			
34	Fabricated metal prod., total.....	19,097	18,771	18,682	18,636	18,533	18,584	18,195	18,721	18,523	18,582	18,622	18,632	18,668	18,441	16,374	16,442	16,287			
341	Metal cans, barrels, and drums.....	1,475	1,447	1,362	1,380	1,357	1,380	1,358	1,257	1,246	1,253	1,379	1,471	1,526	1,503	1,077	1,104	1,110			
35	Machinery, except electrical, total.....	36,146	35,957	35,525	35,132	34,607	34,120	33,573	35,987	35,443	34,969	34,688	34,317	34,223	33,866	30,122	29,665	29,230			
351	Engines and turbines.....	2,609	2,549	2,528	2,517	2,522	2,528	2,517	2,528	2,528	2,528	2,528	2,491	2,475	2,539	2,520	2,368	2,301			
352	Farm machinery and equipment.....	3,063	3,010	2,889	2,825	2,814	2,850	2,779	2,904	2,805	2,782	2,760	2,786	2,862	2,835	2,327	2,249	2,281			
353	Construction, mining, and material handling equipment.....	8,351	8,214	8,107	8,118	7,965	7,795	7,755	8,201	8,017	7,953	8,039	8,013	7,931	7,793	6,812	6,680	6,624			
354	Metalworking machinery.....	9,351	9,231	9,107	9,013	8,880	8,795	8,705	9,282	9,143	9,013	8,923	8,888	8,812	8,739	7,812	7,680	7,624			
356	General industrial machinery.....	3,559	3,487	3,527	3,479	3,446	3,319	3,325	3,513	3,449	3,474	3,454	3,453	3,359	3,355	3,119	3,062	3,027			

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURES--INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(millions of dollars)

SIC	Industry	Seasonally adjusted												Without seasonal adjustment ¹											
		Monthly												Monthly											
		Nov. 1979 ^a	Oct. 1979 ^a	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1979 ^a	Oct. 1979 ^a	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1979 ^a	Oct. 1979 ^a	Sept. 1979							
INDUSTRY GROUPS AND INDUSTRIES--Continued																									
36	Electrical machinery, total.....	20,047	19,817	19,486	19,180	19,015	18,714	18,479	19,841	19,610	19,257	19,185	19,129	19,091	18,937	16,912	16,921	16,915							
361.2	Electrical transmission and distribution equipment and industrial apparatus.....	3,786	3,730	3,632	3,580	3,527	3,524	3,490	3,759	3,691	3,585	3,556	3,522	3,545	3,534	3,207	3,185	3,188							
363	Household appliances.....	1,976	1,981	1,991	1,991	1,956	1,958	1,983	1,883	1,883	1,884	1,884	1,957	1,980	2,047	1,867	1,908	1,943							
365	Radio and TV.....	950	958	963	977	1,032	984	988	946	955	974	1,029	1,073	1,033	996	996	998	1,017							
366	Communication equipment.....	6,313	6,258	6,189	6,129	6,065	6,129	6,085	6,920	6,852	6,781	6,728	6,677	6,619	6,570	5,467	5,317	5,326							
367	Electronic components.....	2,985	2,977	2,897	2,858	2,804	2,850	2,839	2,973	2,950	2,894	2,861	2,918	2,870	2,850	2,495	2,490	2,528							
37	Transportation equipment, total.....	30,213	29,465	28,534	28,219	27,994	27,300	27,125	30,331	29,673	28,639	28,348	27,421	26,970	26,971	24,184	23,663	23,827							
371	Motor vehicles and parts.....	8,483	8,894	8,811	9,257	9,236	8,857	9,177	8,856	9,135	8,881	9,294	8,627	8,564	9,002	8,343	8,036	8,376							
372.6	Aircraft, missiles, and parts.....	16,899	16,169	15,481	14,825	14,756	14,696	14,083	16,899	16,157	15,509	14,918	14,746	14,575	14,103	12,125	11,916	11,561							
373.1	Ships and military tank vehicles.....	2,306	2,316	2,064	2,014	1,815	1,675	1,718	2,261	2,108	2,081	2,021	1,917	1,725	1,746	1,763	1,838	1,352							
38	Instruments and related products, total.....	7,585	7,491	7,456	7,486	7,445	7,336	7,212	7,489	7,467	7,438	7,502	7,479	7,436	7,419	6,331	6,331	6,279							
381-4	Scientific and engineering.....	5,195	5,091	5,021	4,948	4,869	4,799	4,697	5,138	5,050	4,981	4,919	4,860	4,833	4,744	4,152	4,129	4,055							
386	Photographic goods.....	1,907	1,910	1,926	2,038	2,067	2,031	2,009	1,873	1,907	1,945	2,076	2,104	2,086	2,057	1,709	1,730	1,527							
24	All other durable goods industries.....	11,935	11,870	11,734	11,724	11,551	11,606	11,405	11,656	11,660	11,614	11,663	11,570	11,672	11,515	10,732	10,403	10,588							
20	Food and kindred products, total.....	20,091	19,871	19,856	19,293	19,159	19,106	18,524	21,215	20,797	19,793	18,900	18,192	18,032	17,923	17,960	17,763	16,727							
201	Beverages.....	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318							
208	Meat products.....	3,112	3,168	3,173	3,602	3,437	3,614	3,590	3,701	3,762	3,666	3,508	3,506	3,531	3,597	3,363	3,356	3,207							
207	Fats and oils.....	1,907	1,867	1,704	1,563	1,572	1,605	1,466	2,176	1,820	1,285	1,303	1,410	1,514	1,496	1,653	1,604	1,045							
207-6.9	All other foods.....	10,882	10,814	11,070	10,791	10,647	10,590	10,234	11,720	11,712	11,447	10,727	9,912	9,626	9,528	9,992	10,048	9,618							
21	Tobacco products.....	3,657	3,693	3,746	3,759	3,697	3,716	3,581	3,705	3,696	3,638	3,657	3,256	3,496	3,521	3,325	3,319	3,366							
22	Textile mill products.....	5,354	5,746	5,686	5,703	5,665	5,645	5,666	5,669	5,669	5,669	5,669	5,669	5,669	5,669	5,669	5,669	5,528							
26	Paper and allied products, total.....	6,622	6,538	6,422	6,363	6,265	6,304	6,294	6,573	6,458	6,317	6,362	6,317	6,422	6,398	5,733	5,733	5,744							
261-3	Pulp, paper, etc.....	2,245	2,198	2,137	2,148	2,110	2,090	2,100	2,223	2,178	2,105	2,143	2,105	2,143	2,115	1,899	1,899	1,688							
265	Paperboard containers.....	1,854	1,809	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,699							
284	All other paper containers.....	2,523	2,531	2,542	2,430	2,318	2,469	2,436	2,323	2,403	2,393	2,409	2,365	2,493	2,483	2,045	2,066	2,080							
28	Chemicals and allied products, total.....	16,777	16,610	16,382	16,267	16,022	15,901	15,964	16,752	16,409	16,258	16,094	15,920	15,664	15,797	15,333	14,981	14,931							
281.6	Industrial chemicals, except pigments.....	5,071	5,038	5,021	4,894	4,816	4,677	4,717	5,101	5,023	4,950	4,884	4,792	4,584	4,646	4,568	4,522	4,526							
283.4	Drugs, soap, and toiletries.....	5,333	5,281	5,241	5,190	5,132	5,186	5,122	5,301	5,223	5,158	5,185	5,209	5,264	5,184	4,761	4,683	4,651							
29	Petroleum and coal products, total.....	6,411	6,400	6,354	5,997	5,937	5,347	5,063	6,566	6,571	6,440	6,024	5,606	5,387	5,031	5,753	5,632	5,484							
29	Rubber and plastics products, n.e.c.....	4,799	4,818	4,962	4,947	4,985	4,870	4,868	4,699	4,703	4,826	4,822	4,894	4,867	4,915	4,424	4,445	4,439							
33	All other nondurable goods industries.....	11,739	11,732	11,882	11,872	11,911	11,710	11,623	11,225	11,450	11,877	12,131	12,334	12,265	12,018	10,419	10,433	10,773							

Preliminary.

Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Non-durable goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products-- Machinery, except electrical (excluding farm machinery and machine shop), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products-- Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MACI-75, Shipments of Defense Ordnance Industries, for the specified industries.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP
(Millions of dollars)

Industry	Seasonally adjusted					Without seasonal adjustment									
	Nov. 1979 ^a	Oct. 1979 ^a	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Sept. 1979	Oct. 1979	Nov. 1979	Dec. 1979	Jan. 1980	Feb. 1980	Mar. 1980	Apr. 1980
TOTAL															
226,167	223,450	221,417	219,137	216,560	214,339	211,085	225,154	222,296	219,375	217,893	214,979	213,818	212,123	195,872	193,659
Durable goods industries, total.....	150,237	148,042	145,927	144,966	141,700	139,502	168,770	166,672	164,618	164,370	162,752	162,004	160,697	157,136	155,348
Stone, clay, and glass products.....	3,550	3,522	3,505	3,478	3,450	3,422	3,396	3,370	3,344	3,318	3,292	3,266	3,240	3,214	3,188
Textile millinery.....	19,067	18,751	18,435	18,119	17,803	17,487	18,165	17,849	17,533	17,217	16,901	16,585	16,269	15,953	15,637
Fabricated metal.....	19,097	18,771	18,445	18,119	17,793	17,467	18,145	17,829	17,513	17,197	16,881	16,565	16,249	15,933	15,617
Nonferrous metal.....	36,346	35,957	35,568	35,179	34,790	34,401	35,078	34,695	34,312	33,929	33,546	33,163	32,780	32,397	32,014
Electrical machinery.....	20,049	19,817	19,586	19,355	19,124	18,893	19,570	19,339	19,108	18,877	18,646	18,415	18,184	17,953	17,722
Transportation equipment.....	30,213	29,465	28,718	27,971	27,224	26,477	27,154	26,923	26,692	26,461	26,230	26,000	25,769	25,538	25,307
Non-durable goods industries, total.....	11,933	11,870	11,796	11,724	11,651	11,578	11,606	11,634	11,662	11,690	11,718	11,746	11,774	11,802	11,830
All other durable goods industries.....	75,930	75,408	74,900	74,374	73,848	73,322	73,800	73,278	72,756	72,234	71,712	71,190	70,668	70,146	69,624
Chemicals and allied products.....	16,777	16,610	16,382	16,267	16,022	15,901	15,964	16,028	16,092	16,156	16,220	16,284	16,348	16,412	16,476
Petroleum and coal products.....	6,411	6,400	6,354	6,297	6,240	6,183	6,246	6,299	6,352	6,405	6,458	6,511	6,564	6,617	6,670
Rubber and plastics products, n.e.c.....	47,963	47,389	46,792	46,195	45,598	44,999	45,598	45,197	44,796	44,395	43,994	43,593	43,192	42,791	42,390
All other non-durable goods industries.....	78,009	77,311	76,518	75,738	74,953	74,168	74,786	74,385	73,984	73,583	73,182	72,781	72,380	71,979	71,578
MATERIALS AND SUPPLIES															
Durable goods industries, total.....	48,039	47,734	46,382	45,538	44,885	44,504	47,961	47,217	46,473	45,729	44,985	44,241	43,497	42,753	42,009
Stone, clay, and glass products.....	2,196	2,137	2,040	2,109	2,084	2,059	2,032	2,115	2,032	2,104	2,070	2,036	2,002	1,968	1,934
Textile millinery.....	6,935	6,726	6,589	6,452	6,315	6,178	6,529	6,420	6,311	6,202	6,093	5,984	5,875	5,766	5,657
Fabricated metal.....	10,463	10,405	9,929	9,748	9,595	9,531	9,374	10,288	10,185	9,800	9,744	9,688	9,531	9,389	9,232
Nonferrous metal.....	5,719	5,763	5,668	5,549	5,371	5,483	5,647	5,690	5,635	5,589	5,681	5,534	5,436	5,340	5,242
Electrical machinery.....	8,303	8,298	7,977	8,310	7,926	7,657	7,979	8,524	8,562	8,213	8,532	7,542	7,550	7,862	7,472
Transportation equipment.....	2,006	2,062	2,046	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014
Non-durable goods industries, total.....	29,970	29,517	29,369	29,266	28,515	28,400	28,079	30,045	29,534	28,881	28,327	28,201	28,064	27,941	27,818
Chemicals and allied products.....	6,149	6,017	5,873	6,084	5,899	5,940	5,989	6,147	5,951	5,899	5,994	5,879	5,840	5,888	5,511
Petroleum and coal products.....	1,778	1,840	1,774	1,771	1,734	1,504	1,444	1,789	1,857	1,714	1,734	1,540	1,526	1,464	1,366
Rubber and plastics products, n.e.c.....	17,112	17,421	17,174	17,170	17,170	17,170	17,170	17,170	17,170	17,170	17,170	17,170	17,170	17,170	17,170
All other non-durable goods industries.....	20,131	19,978	19,315	19,715	19,273	18,994	20,420	20,013	19,534	19,058	18,582	18,106	17,630	17,154	16,678
WORK IN PROCESS															
Durable goods industries, total.....	78,137	76,873	75,718	74,374	73,554	72,796	71,223	77,693	76,469	75,339	74,301	73,371	72,510	71,537	70,613
Stone, clay, and glass products.....	66,204	64,892	63,828	62,776	62,006	61,461	59,975	65,700	64,429	63,423	62,655	61,809	61,193	60,267	59,341
Textile millinery.....	837	826	827	831	826	823	823	823	823	823	823	823	823	823	823
Fabricated metal.....	7,906	7,737	7,693	7,684	7,677	7,666	7,656	7,646	7,636	7,626	7,616	7,606	7,596	7,586	7,576
Nonferrous metal.....	16,776	16,602	16,393	16,304	15,977	15,620	15,434	16,779	16,533	16,261	16,103	15,945	15,787	15,629	15,471
Electrical machinery.....	9,878	9,636	9,434	9,170	8,984	8,908	8,753	9,843	9,602	9,351	9,210	9,007	8,991	8,882	8,777
Transportation equipment.....	17,956	17,235	16,653	16,051	16,075	15,859	15,205	17,772	17,107	16,577	15,948	15,991	15,528	15,179	14,827
Non-durable goods industries, total.....	11,933	11,890	11,890	11,598	11,548	11,335	11,268	11,993	12,004	11,906	11,666	11,562	11,317	11,270	11,079
Chemicals and allied products.....	2,018	2,032	2,061	2,543	2,549	2,474	2,519	2,565	2,616	2,634	2,549	2,538	2,477	2,527	2,433
Petroleum and coal products.....	2,018	1,989	1,856	1,729	1,668	1,645	1,480	2,037	2,013	1,868	1,735	1,711	1,670	1,530	1,393
Rubber and plastics products, n.e.c.....	6,854	6,501	6,300	6,437	6,443	6,353	6,381	6,511	6,543	6,543	6,504	6,456	6,329	6,373	6,064
All other non-durable goods industries.....	70,021	69,246	68,948	68,005	68,953	68,228	67,279	69,455	68,510	67,569	66,620	65,671	64,720	63,769	62,818
FINISHED GOODS															
Durable goods industries, total.....	35,994	35,416	35,717	35,698	35,825	35,334	35,023	35,109	34,560	34,359	34,800	35,500	36,147	36,205	36,373
Stone, clay, and glass products.....	2,517	2,508	2,579	2,509	2,314	2,495	2,475	2,411	2,422	2,420	2,460	2,537	2,527	2,557	2,527
Textile millinery.....	5,268	5,098	5,161	5,209	5,274	5,158	5,062	5,140	4,973	4,922	5,002	5,126	5,126	5,126	5,126
Fabricated metal.....	9,109	8,950	9,203	9,080	9,035	8,969	8,765	8,920	8,725	8,908	8,841	8,915	8,915	8,915	8,915
Nonferrous metal.....	4,452	4,418	4,384	4,461	4,400	4,363	4,351	4,318	4,271	4,386	4,441	4,566	4,492	4,492	4,285
Electrical machinery.....	3,954	3,932	3,904	3,908	3,993	3,904	3,941	4,035	4,024	3,844	3,888	3,892	3,930	3,124	2,960
Transportation equipment.....	1,950	1,951	1,913	1,948	1,931	1,894	1,880	1,802	1,832	1,894	1,962	1,950	1,911	1,907	1,840
Non-durable goods industries, total.....	36,023	35,800	36,213	36,129	36,066	35,900	36,000	35,900	35,900	35,900	35,900	35,900	35,900	35,900	35,900
Chemicals and allied products.....	8,027	7,961	8,028	7,640	7,574	7,487	7,456	8,000	7,842	7,725	7,551	7,503	7,367	7,382	7,054
Petroleum and coal products.....	2,615	2,571	2,724	2,497	2,355	2,198	2,139	2,700	2,701	2,858	2,555	2,355	2,091	2,037	2,873
Rubber and plastics products, n.e.c.....	2,219	2,217	2,399	2,382	2,376	2,334	2,368	2,130	2,122	2,223	2,223	2,223	2,223	2,223	2,164
All other non-durable goods industries.....	21,116	21,101	20,788	20,623	20,895	20,313	21,436	21,385	21,164	20,721	20,331	20,460	20,361	19,112	18,974

Revised.

Not elsewhere classified.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average,	
	Oct.- Nov. 1979	Sept.- Oct. 1979	Aug.- Sept. 1979	3 months			12 months Nov. 1978- Nov. 1979	Average rise	Average decline
				Aug.- Nov. 1979	May- Aug. 1979	Feb.- May 1979			
Shipments:									
All manufacturing industries.....	-0.5	+1.7	+0.5	+0.6	+0.1	+1.7	+0.8	+1.6	-1.2
Durable goods industries, total.....	-1.8	-1.9	-0.5	-0.1	-0.6	+1.3	+0.4	-1.9	-1.7
Nondurable goods industries, total...	+1.0	+1.4	+1.6	+1.3	+0.8	+2.3	+1.3	+1.5	-0.9
Total inventories:									
All manufacturing industries.....	+1.2	+0.9	+1.0	+1.0	+1.2	+1.2	+1.2	+0.9	-0.3
New orders:									
All manufacturing industries.....	+0.9	-0.4	+3.1	+1.2	-0.2	+0.0	+0.6	+1.9	-1.8
Durable goods industries, total.....	-0.1	-1.5	+4.8	+1.1	-1.3	-1.7	+0.0	+3.4	-1.9
Nondurable goods industries, total...	+1.9	+0.8	+1.4	+1.4	+1.0	+2.1	+1.4	+1.6	-0.8
Unfilled orders:									
Durable goods industries, total.....	+0.9	+0.4	+1.4	+0.9	+0.2	+1.7	+1.4	+1.4	-0.8

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio							Unfilled orders--shipments ratio ¹ (months' backlog)						
	Nov. 1979	Oct. 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Nov. 1979	Oct. 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979
All manufacturing industries, total.....	1.56	1.53	1.55	1.54	1.54	1.54	1.48	3.64	3.56	3.63	3.56	3.58	3.65	3.53
Durable goods industries, total.....	2.03	1.96	1.97	1.95	1.95	1.95	1.84	4.31	4.22	3.74	4.23	4.27	4.34	4.19
Stone, clay, and glass products.....	1.31	1.30	1.35	1.34	1.32	1.32	1.29	0.75	0.76	0.84	0.82	0.83	0.80	0.82
Primary metals.....	1.61	1.58	1.65	1.63	1.58	1.62	1.47	2.55	2.50	2.60	2.53	2.60	2.78	2.57
Fabricated metals.....	2.05	2.02	2.08	2.04	2.05	2.06	1.95	3.30	3.30	3.41	3.38	3.38	3.40	3.32
Machinery, except electrical.....	2.76	2.61	2.61	2.59	2.61	2.64	2.57	4.79	4.52	4.65	4.68	4.78	4.84	4.77
Electrical machinery.....	2.12	2.11	2.08	2.08	2.09	2.01	2.02	3.72	3.73	3.71	3.72	3.70	3.64	3.66
Transportation equipment.....	2.04	1.90	1.83	1.77	1.80	1.78	1.57	12.50	11.90	11.58	10.86	11.28	11.55	10.71
Instruments and related products.....	2.37	2.43	2.38	2.49	2.47	2.42	2.43		1.91	1.86	1.91	1.88	1.86	1.85
Nondurable goods industries, total.....	1.07	1.08	1.09	1.09	1.09	1.10	1.07	0.82	0.77	0.79	0.74	0.72	0.75	0.73
Food and kindred products.....	0.99	0.98	1.00	0.98	0.97	0.99	0.95	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Tobacco products.....	3.53	3.50	3.57	3.65	3.16	4.41	3.49	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Textile mill products.....	1.49	1.42	1.43	1.46	1.40	1.42	1.45	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.19	1.16	1.16	1.12	1.14	1.16	1.12	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.28	1.29	1.31	1.32	1.29	1.27	1.29	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.50	0.52	0.52	0.50	0.52	0.50	0.48	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.31	1.28	1.33	1.31	1.33	1.31	1.28	(X)	(X)	(X)	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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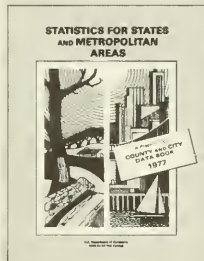
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